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Testing having congrowth and synapsic models of aisland by marker formed IPS cells Establishing next-generation tools for quantitative softward in the control of the cont		\$0	Q4.S.B	University of North Carolina at Chapel Hill
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behavioral phenotyping Testing brain overgrowth and synaptic models of autism using NRCs and neurons from patient-derived IPS cells Role of astrocycle gulamate transporter GLT1 in fragile Characterization of synaptic and neuron include: Project 2 Characterization of synaptic and neuron include: Project 2 Role of Castrocycle gulamate transporter GLT1 in fragile Role of Castrocycle gulamate transporter gulamate Role of Role of Castrocycle gulamate transporter gulamate Role of Role of Castrocycle gulamate transporter gulamate Role of Role of Castrocycle gulamate gulama	Testing brain overgrowth and synaptic models of autism using NPCs and neurons from patient-derived iPS cells	\$0	Q4.S.B	University of California, San Francisco
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X Characterization of symptic and neural circuitry dysfunction underlying ASD-like behaviors using a novel precision consequence of the provided in the provid		\$0	Q4.S.B	Salk Institute for Biological Studies
dysfunction underlying ASD-like behaviors using a novel genetic mouse model Role of Caspr2 (CNTNAP2) in brain circuits - Project 2 Role of Role of Caspr2 (CNTNAP2) in brain circuits - Project 2 Role of Role of Role of Caspr2 (CNTNAP2) in brain circuits - Project 2 Role of Role of Role of Caspr2 (CNTNAP2) in brain circuits - Project 2 Role of Role of Role of Role of Caspr2 (CNTNAP2) in brain circuits - Project 2 Role of Role of Role of Role of Caspr2 (CNTNAP2) in brain circuits - Project 2 Role of Role of Role of Role of Caspr2 (CNTNAP2) in pathogenesis and treatment of autism and related disorders Role of Role of Role of Role of Caspr2 (CNTNAP2) in pathogenesis and treatment of autism - Project 2 Role of Role of Role of Role of Caspr2 (CNTNAP2) in pathogenesis and treatment of autism - Project 2 Role of Role of Role of Role of Caspr2 (CNTNAP2) in pathogenesis and treatment of autism - Project 2 Role of	Role of astrocytic glutamate transporter GLT1 in fragile X	\$0	Q4.S.B	Tufts University
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Functional study of synaptic scaffold protein SHANK3 and autism mouse model Functional consequences of disrupted MET signaling Functional consequences of disrupted MET signaling Functional consequences of disrupted MET signaling Fredinical testing of novel oxytocin receptor activators in S0 Q4.S.B Children's Hospital Los Angeles Children's Hospital Children's Hospital Los Angeles Children's Hospital C	Role of Caspr2 (CNTNAP2) in brain circuits - Project 2	\$0	Q4.S.B	University of California, Los Angeles
and autism mouse model Functional consequences of disrupted MET signaling Preclinical testing of novel oxytocin receptor activators in models of autism phenotypes Rat knockout models of ASD Q4.S.B University of North Carolina at Chapel Hill Michael Spring of Induced-pluripotent stem cells to study Phelan McDermid Spring of movel oxytocin receptor activators in solution phenotypes Rat knockout models of ASD Q4.S.B Baylor College of Medicine Q4.S.B Stanford University School of Medicine Cell type-specific profiling for autism spectrum disorders Q4.S.B Columbia University Q4.S.B University of California, San Francisco Dehavioral regulation Novel therapeutic targets to treat social behavior deficits in autism and related disorders Examination of the mcGluR-mTOR pathway for the identification of potential therapeutic targets to treat social behavior and precipility of Pennsylvania identification of potential therapeutic targets to treat social substance of autism of potential therapeutic targets to treat social behavior deficits in autism and related disorders Examination of the mcGluR-mTOR pathway for the Social behavior deficits in autism and related disorders Examination of potential therapeutic targets to treat fragile X Role of RAS/RAF/ERK pathway in pathogenesis and treatment for autism Social Rask pathway in pathogenesis and treatment for autism Perinatal choline supplementation as a treatment for autism A mouse model of top-down interactions Social Rask pathway in pathogenesis in autism models in virtual reality Whole Brain Mapping of the Effects of Intranasal Cytocin in CNTNAP2 KO Mouse Model of Autism Cold Spring Harbor Laboratory Cold Spring Harbor Laboratory		\$0	Q4.S.B	University of North Carolina at Chapel Hill
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Rat knockout models of ASD \$0 Q4.S.B Baylor College of Medicine Using induced-pluripotent stem cells to study Phelan McDermid Syndrome Cell type-specific profiling for autism spectrum disorders Q4.S.B Columbia University School of Medicine Cell type-specific profiling for autism spectrum disorders Q4.S.B Columbia University Q4.S.B University of California, San Francisco behavioral regulation Novel therapeutic targets to treat social behavior deficits In autism and related disorders Examination of the mGluR-mTOR pathway for the identification of potential therapeutic targets to treat fragile X Role of RAS/RAF/ERK pathway in pathogenesis and treatment of autism Perinatal choline supplementation as a treatment for autism A mouse model of top-down interactions Q4.S.B The Rockefeller University Q4.S.B The Rockefeller University Q4.S.B The Rockefeller University Whole Brain Mapping of the Effects of Intranasal Cxytocin in CNTNAP2 KO Mouse Model of Autism	Functional consequences of disrupted MET signaling	\$0	Q4.S.B	Children's Hospital Los Angeles
Using induced-pluripotent stem cells to study Phelan McDermid Syndrome Q4.S.B Q4.S.B Columbia University Q4.S.B Columbia University Q4.S.B Columbia University Q4.S.B Columbia University Q4.S.B University of California, San Francisco behavior a regulation Novel therapeutic targets to treat social behavior deficits in autism and related disorders Examination of the mGluR-mTOR pathway for the identification of potential therapeutic targets to treat fragile X Role of RAS/RAF/ERK pathway in pathogenesis and treatment of autism Perinatal choline supplementation as a treatment for autism A mouse model of top-down interactions Q4.S.B Q4.S.B Q4.S.B Q4.S.B Q4.S.B Q4.S.B Developmental Disabilities Perinatal choline supplementations Q4.S.B Developmentations Q4.S.B Developmentat		\$0	Q4.S.B	University of North Carolina at Chapel Hill
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Q4.S.B University of California, San Francisco behavioral regulation Novel therapeutic targets to treat social behavior deficits in autism and related disorders Examination of the mGluR-mTOR pathway for the identification of potential therapeutic targets to treat fragile X Role of RAS/RAF/ERK pathway in pathogenesis and treatment of autism Perinatal choline supplementation as a treatment for autism A mouse model of top-down interactions \$0 Q4.S.B University of Texas Health Science Center at S Antonio Q4.S.B University of Pennsylvania University of Pennsylvania University of Pennsylvania Q4.S.B New York State Institute for Basic Research in Developmental Disabilities Perinatal choline supplementation as a treatment for autism A mouse model of top-down interactions \$0 Q4.S.B The Rockefeller University Q4.S.B Whole Brain Mapping of the Effects of Intranasal Oxytocin in CNTNAP2 KO Mouse Model of Autism		\$0	Q4.S.B	Stanford University School of Medicine
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in autism and related disorders Examination of the mGluR-mTOR pathway for the identification of potential therapeutic targets to treat fragile X Role of RAS/RAF/ERK pathway in pathogenesis and treatment of autism Perinatal choline supplementation as a treatment for autism A mouse model of top-down interactions Q4.S.B Q4.S.B Q4.S.B Q4.S.B Boston University Q4.S.B The Rockefeller University Optical imaging of circuit dynamics in autism models in virtual reality Whole Brain Mapping of the Effects of Intranasal Oxytocin in CNTNAP2 KO Mouse Model of Autism Antonio Q4.S.B University of Pennsylvania University of Pennsylvania University of Pennsylvania Val.S.B Q4.S.B Q4.S.B Antonio Q4.S.B University of Pennsylvania University of Pennsylvania		\$0	Q4.S.B	University of California, San Francisco
identification of potential therapeutic targets to treat fragile X Role of RAS/RAF/ERK pathway in pathogenesis and treatment of autism Perinatal choline supplementation as a treatment for autism A mouse model of top-down interactions Q4.S.B Q4.S.B Boston University A mouse model of top-down interactions Q4.S.B The Rockefeller University Q4.S.B Harvard Medical School virtual reality Whole Brain Mapping of the Effects of Intranasal Oxytocin in CNTNAP2 KO Mouse Model of Autism Q4.S.B Q4.S.B Cold Spring Harbor Laboratory		\$0	Q4.S.B	University of Texas Health Science Center at San Antonio
treatment of autism Perinatal choline supplementation as a treatment for autism Q4.S.B Boston University A mouse model of top-down interactions Q4.S.B The Rockefeller University Optical imaging of circuit dynamics in autism models in virtual reality Whole Brain Mapping of the Effects of Intranasal Oxytocin in CNTNAP2 KO Mouse Model of Autism Developmental Disabilities Developmental Disabilities Developmental Disabilities Developmental Disabilities Developmental Disabilities Developmental Disabilities	identification of potential therapeutic targets to treat	\$0	Q4.S.B	University of Pennsylvania
autism A mouse model of top-down interactions \$0 Q4.S.B The Rockefeller University Optical imaging of circuit dynamics in autism models in virtual reality Whole Brain Mapping of the Effects of Intranasal Oxytocin in CNTNAP2 KO Mouse Model of Autism Oxytocin in CNTNAP2 KO Mouse Model of Autism		\$0	Q4.S.B	
Optical imaging of circuit dynamics in autism models in virtual reality Whole Brain Mapping of the Effects of Intranasal Oxytocin in CNTNAP2 KO Mouse Model of Autism Q4.S.B Harvard Medical School Q4.Other Cold Spring Harbor Laboratory		\$0	Q4.S.B	Boston University
Virtual reality Q4.Other Whole Brain Mapping of the Effects of Intranasal Oxytocin in CNTNAP2 KO Mouse Model of Autism \$0 Q4.Other Cold Spring Harbor Laboratory	A mouse model of top-down interactions	\$0	Q4.S.B	The Rockefeller University
Oxytocin in CNTNAP2 KO Mouse Model of Autism		\$0	Q4.S.B	Harvard Medical School
	Whole Brain Mapping of the Effects of Intranasal Oxytocin in CNTNAP2 KO Mouse Model of Autism	\$0	Q4.Other	Cold Spring Harbor Laboratory
2013 Dup15q Alliance Scientific Meeting Support \$5,000 Q4.S.E Dup15q Alliance	2013 Dup15q Alliance Scientific Meeting Support	\$5,000	Q4.S.E	Dup15q Alliance

Project Title	Funding	Strategic Plan Objective	Institution	
Adverse prenatal environment and altered social and anxiety-related behaviors	\$15,000	Q4.S.B	University of Pennsylvania	
Evaluating hyperserotonemia as a biomarker of sensory dysfunction in autism spectrum disorder	\$28,600	Q4.S.B	Vanderbilt University	
Cellular and molecular pathways of cortical afferentation in autism spectrum disorders	\$45,000	Q4.S.B	University of Geneva	
Effects of oxytocin receptor agonists in mouse models of autism spectrum disorder phenotypes	\$50,600	Q4.S.B	University of North Carolina at Chapel Hill	
Vicarious neural activity, genetic differences and social fear learning	\$53,942	Q4.S.B	Oregon Health & Science University	
Integrative system biology of iPSC-induced neurons for identifying novel drug targets	\$56,900	Q4.S.B	Baylor College of Medicine	
Preclinical therapeutic target validation of glutamate receptors in Shank3 models of autism	\$58,900	Q4.S.B	University of Texas Southwestern Medical Center	
Temporally controlled genetic rescue of Shank3 autism model	\$60,000	Q4.S.B	University of Texas Southwestern Medical Center	
Mechanism and treatment of ASD related behavior in the Cntnap2 knockout mouse model	\$60,000	Q4.S.B	University of California, Los Angeles	
Exploring VIPR2 microduplication linkages to autism in a mouse model	\$60,000	Q4.S.B	University of California, Los Angeles	
Misregulation of microtubule dynamics in Autism	\$60,000	Q4.S.B	Drexel University	
Role of cadherin 8 in assembling circuits in the prefrontal cortex	\$62,376	Q4.S.B	Mount Sinai School of Medicine	
Effect of abnormal calcium influx on social behavior in autism	\$62,500	Q4.S.B	University of California, San Francisco	
Studying the neural development of patient-derived stem cells	\$62,500	Q4.S.B	Johns Hopkins University School of Medicine	
Biomarker discovery for low sociability: A monkey model	\$62,500	Q4.S.B	Stanford University	
Deficits in tonic inhibition and the pathology of autism spectrum disorders	\$62,500	Q4.S.B	Tufts University	
Role of UBE3A in neocortical plasticity and function	\$77,686	Q4.S.B	University of North Carolina at Chapel Hill	
Role of Caspr2 (CNTNAP2) in brain circuits - Project 1	\$79,675	Q4.S.B	King's College London	
Role of Caspr2 (CNTNAP2) in brain circuits- Core	\$89,999	Q4.S.B	Weizmann Institute of Science	
Characterization of brain and behavior in 7q11.23 duplication syndrome-Project 1	\$90,713	Q4.S.B	University of California, Davis	
Preclinical Autism Consortium for Therapeutics (PACT)- Boston Children's Hospital Site	\$91,174	Q4.S.B	Boston Children's Hospital	
Preclinical Autism Consortium for Therapeutics	\$94,331	Q4.S.B	University of California, Davis	
Training in translational social neuroscience	\$98,163	Q4.S.B	Emory University	

Project Title	Funding	Strategic Plan Objective	Institution
Preclinical Autism Consortium for Therapeutics (PACT) at Baylor College of Medicine	\$98,351	Q4.S.B	Baylor College of Medicine
16p11.2: Defining the gene(s) responsible (grant 1)	\$104,190	Q4.S.B	Cold Spring Harbor Laboratory
Novel approaches to enhance social cognition by stimulating central oxytocin release	\$119,499	Q4.S.B	Emory University
Cerebellar signaling in mouse models of autism	\$125,000	Q4.S.B	Northwestern University
Identifying high-impact therapeutic targets for autism spectrum disorders using rat models	\$137,173	Q4.S.B	Mount Sinai School of Medicine
Functional analysis of rare variants in genes associated with autism	\$146,625	Q4.S.B	Yale University
Control of synaptic protein synthesis in the pathogenesis and therapy of autism	\$148,914	Q4.S.B	Massachusetts General Hospital
Investigating the effects of chromosome 22q11.2 deletions	\$150,000	Q4.S.B	Columbia University
Characterization of brain and behavior in 7q11.23 duplication syndrome-Core	\$164,853	Q4.S.B	University of Toronto
Preclinical Autism Consortium for Therapeutics (PACT)- Boston Children's Hospital	\$172,009	Q4.S.B	Boston Children's Hospital
Small-molecule compounds for treating autism spectrum disorders	\$175,000	Q4.S.B	University of North Carolina at Chapel Hill
Dissecting the circuits underlying autism-like behaviors in mice	\$175,000	Q4.S.B	Massachusetts Institute of Technology
16p11.2: defining the gene(s) responsible	\$175,000	Q4.S.B	Cold Spring Harbor Laboratory
Exploring the neuronal phenotype of autism spectrum disorders using induced pluri	\$180,391	Q4.S.B	Stanford University
Investigating the role of CNTNAP2 gene in vocal learning in mutant songbirds	\$197,609	Q4.S.B	University of Massachusetts Medical School
16p11.2 deletion mice: autism-relevant phenotypes and treatment discovery	\$200,000	Q4.S.B	University of California, Davis
16p11.2 deletion mice: Autism-relevant phenotypes and treatment discovery	\$200,000	Q4.S.B	Stanford University
Preclinical Autism Consortium for Therapeutics (PACT)	\$200,894	Q4.S.B	University of California, Davis
Tooth pulp as a source for neuronal precursor cells to study neurogenetic disorders	\$217,125	Q4.S.B	University of Tennessee Health Science Center
Modeling the serotonin contribution to autism spectrum disorders	\$222,643	Q4.S.B	Vanderbilt University Medical Center
Serotonin, autism, and investigating cell types for CNS disorders	\$235,867	Q4.S.B	Washington University in St. Louis
Animal model of speech sound processing in autism	\$239,188	Q4.S.B	University of Texas at Dallas
The role of glutamate receptor intereacting proteins in autism	\$249,999	Q4.S.B	Johns Hopkins University School of Medicine

Project Title	Funding	Strategic Plan Objective	Institution	
Synaptic pathophysiology of 16p11.2 model mice	\$250,000	Q4.S.B	Massachusetts Institute of Technology	
Understanding copy number variants associated with autism	\$250,000	Q4.S.B	Duke University Medical Center	
Reversing BDNF impairments in Rett mice with TRPC channel activators	\$256,375	Q4.S.B	University of Alabama at Birmingham	
A novel translational model of autism spectrum disorder	\$267,750	Q4.S.B	Emory University	
Insight into MeCP2 function raises therapeutic possibilities for Rett syndrome	\$277,269	Q4.S.B	University of California, San Francisco	
PsychoGenics Inc.	\$312,375	Q4.S.B	PsychoGenics Inc.	
Mechanisms of stress-enhanced aversive conditioning	\$366,000	Q4.S.B	Northwestern University	
Piloting treatment with insulin-like growth Factor-1 in Phelan-McDermid syndrome	\$366,363	Q4.L.A	Mount Sinai School of Medicine	
Neuroligin function in vivo: Implications for autism and mental retardation	\$373,032	Q4.S.B	University of Texas Southwestern Medical Center	
Neurobiological signatures of social dysfunction and repetitive behavior	\$374,400	Q4.S.B	Vanderbilt University Medical Center	
Striatal synaptic abnormalities in models of autism	\$381,600	Q4.S.B	University of Texas Southwestern Medical Center	
Novel genetic models of autism	\$415,328	Q4.S.B	University of Texas Southwestern Medical Center	
Comprehensive Phenotyping of Autism Mouse Models	\$416,495	Q4.S.B	The University of Pennsylvania	
Oxytocin receptors and social behavior	\$422,748	Q4.S.B	Emory University	
Identifying therapeutic targets for autism using Shank3-deficient mice	\$466,151	Q4.S.B	Mount Sinai School of Medicine	
Effects of chronic intranasal oxytocin	\$526,020	Q4.S.B	University of California, Davis	
Characterization of the schizophrenia-associated 3q29 deletion in mouse	\$528,118	Q4.S.B	Emory University	
Studies of genetic and metabolic disorders, autism and premature aging	\$1,446,354	Q4.S.B	National Institutes of Health	
Roles of oxytocin and vasopressin in brain	\$1,496,471	Q4.S.B	National Institutes of Health	